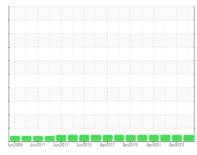


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



RK 315 Component

Component Hydraulic System

AW HYDRAULIC OIL ISO 32 (--- LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

tunč2019 Junč2011 Junč2013 Junč2015 Aprč2017 Aprč2019 Aprč2021 Aprč2023								
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		WC0917758	WC0790391	WC0672011		
Sample Date		Client Info		24 Apr 2024	25 Apr 2023	25 Apr 2022		
Machine Age	mls	Client Info		0	0	0		
Oil Age	mls	Client Info		0	0	0		
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd		
Sample Status				NORMAL	NORMAL	NORMAL		
CONTAMINATION	٧	method	limit/base	current	history1	history2		
Water		WC Method	>0.1	NEG	NEG	NEG		
WEAR METALS		method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>20	0	<1	<1		
Chromium	ppm	ASTM D5185m	>10	0	<1	<1		
Nickel	ppm	ASTM D5185m	>10	0	0	<1		
Titanium	ppm	ASTM D5185m		0	0	0		
Silver	ppm	ASTM D5185m		0	0	<1		
Aluminum	ppm	ASTM D5185m	>10	<1	3	<1		
Lead	ppm	ASTM D5185m	>10	0	0	<1		
Copper	ppm	ASTM D5185m		3	4	3		
Tin	ppm	ASTM D5185m	>10	0	0	<1		
Antimony	ppm	ASTM D5185m	>10					
Vanadium	ppm	ASTM D5185m		0	0	<1		
Cadmium	ppm	ASTM D5185m		0	0	0		
	ррш		11 11 /					
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	5	0	0	<1		
Barium	ppm	ASTM D5185m	5	0	0	0		
				_				
Molybdenum	ppm	ASTM D5185m	5	0	<1	<1		
Manganese		ASTM D5185m ASTM D5185m	5	0	<1 <1	0		
Manganese Magnesium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	5 25	0	<1 <1 <1	0		
Manganese Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m	5 25 200	0 0 66	<1 <1 <1 <1 69	0 3 43		
Manganese Magnesium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	5 25	0	<1 <1 <1	0		
Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 25 200	0 0 66	<1 <1 <1 <1 69	0 3 43		
Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 25 200 300	0 0 66 343	<1 <1 <1 <1 69 380	0 3 43 269		
Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 25 200 300 370	0 0 66 343 391	<1 <1 <1 <1 <69 380 450	0 3 43 269 291		
Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 25 200 300 370 2500 limit/base	0 0 66 343 391 1129	<1 <1 <1 <1 69 380 450 1349	0 3 43 269 291 670 history2		
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 25 200 300 370 2500 limit/base	0 0 66 343 391 1129	<1 <1 <1 <1 <69 380 450 1349 history1	0 3 43 269 291 670 history2		
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m	5 25 200 300 370 2500 limit/base >20	0 0 66 343 391 1129 current	<1 <1 <1 <1 <69 380 450 1349 history1 <1	0 3 43 269 291 670 history2		
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	5 25 200 300 370 2500 limit/base >20	0 0 66 343 391 1129 current 0	<1 <1 <1 <1 69 380 450 1349 history1 <1 <1	0 3 43 269 291 670 history2 <1 3		
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	5 25 200 300 370 2500 limit/base >20 >20	0 0 66 343 391 1129 current 0 1	<1 <1 <1 <1 <1 <1 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5	0 3 43 269 291 670 history2 <1 3		
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	5 25 200 300 370 2500 limit/base >20 >20 limit/base	0 0 66 343 391 1129 current 0 1 0	<1 <1 <1 <1 <69 380 450 1349 history1 <1 <1 <1 <1 <1 <1	0 3 43 269 291 670 history2 <1 3 8		
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m	5 25 200 300 370 2500 limit/base >20 limit/base NONE	0 0 66 343 391 1129 current 0 1 0	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	0 3 43 269 291 670 history2 <1 3 8 history2 NONE		
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual	5 25 200 300 370 2500 limit/base >20 >20 limit/base NONE NONE	0 0 66 343 391 1129 current 0 1 0 current NONE	<1 <1 <1 <1 <1 <69 380 450 1349 history1 <1 <1 <1 <1 NONE NONE	0 3 43 269 291 670 history2 <1 3 8 history2 NONE NONE		
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m ASTM D5185m Method *Visual *Visual *Visual	5 25 200 300 370 2500 limit/base >20 limit/base NONE NONE NONE	0 0 66 343 391 1129 current 0 1 0 current NONE NONE	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	0 3 43 269 291 670 history2 <1 3 8 history2 NONE NONE		
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar	ASTM D5185m method ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual	5 25 200 300 370 2500 limit/base >20 limit/base NONE NONE NONE	0 0 66 343 391 1129 current 0 1 0 current NONE NONE	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	0 3 43 269 291 670 history2 <1 3 8 history2 NONE NONE NONE NONE		
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar	ASTM D5185m Method ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual	5 25 200 300 370 2500 limit/base >20 >20 limit/base NONE NONE NONE NONE NONE	0 0 66 343 391 1129 current 0 1 0 current NONE NONE NONE NONE NONE NONE	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	0 3 43 269 291 670 history2 <1 3 8 history2 NONE NONE NONE NONE NONE		
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m ASTM D5185m *Visual	5 25 200 300 370 2500 limit/base >20 >20 limit/base NONE NONE NONE NONE NONE NONE	0 0 66 343 391 1129 current 0 1 0 current NONE NONE NONE NONE NONE NONE NONE NON	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	0 3 43 269 291 670 history2 <1 3 8 history2 NONE NONE NONE NONE NONE NONE NONE NON		
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	5 25 200 300 370 2500 limit/base >20 >20 limit/base NONE NONE NONE NONE NONE NONE NONE NON	0 0 66 343 391 1129 current 0 1 0 current NONE NONE NONE NONE NONE NONE NONE NON	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	0 3 43 269 291 670 history2 <1 3 8 history2 NONE NONE NONE NONE NONE NONE NONE NON		

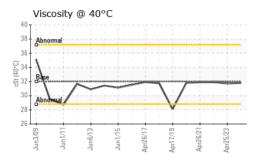
MESIMONTERA - GOLGOLCO

NEG

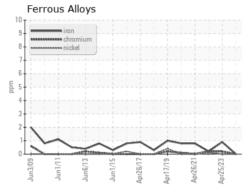
scalar *Visual

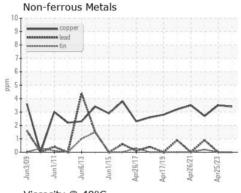


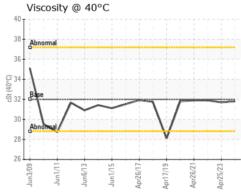
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32	31.8	31.7	31.9
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image











Certificate 12367

Laboratory

Sample No. : WC0917758 Lab Number : 06176366 Unique Number : 11022419 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10 May 2024 **Tested** : 13 May 2024

: 13 May 2024 - Wes Davis Diagnosed

COLORADO SPRINGS FIRE DEPT.

3667 E. BIJOU ST. COLORADO SPRINGS, CO US 80911

Contact: JAMES MONTERA jmontera@springsgov.com T: (719)385-7380

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (719)385-7382 Contact/Location: JAMES MONTERA - COLCOLCO